English translation of the abstract of Taiwan patent publication No. 484734

The object of the creation is to provide an improved structure of optic disk that comprises a plastic substrate having a predetermined surface. A center round hole is formed at the center of the substrate. A base for supporting the whole surface is formed around center round hole. The base is made of optical grade polycarbonate plastic to be transmissive to laser light. The top face of the plastic substrate is coated with a reflection layer for storing data to reflect the laser light signal. The top face of the reflection layer is coated with a protection layer made of hardened polymethyl methacrylate resin to prevent the protection layer from being oxidized and scratched and the protection layer also is used as a underlying layer for printing. On the top face of the protection layer, a print layer is formed with UV ink in form of silk screen or lithograph pattern. The improved structure of optic disk is characterized in that a accommodation recess is preformed on the surface of the base of the plastic substrate, a RFID IC is attached to the accommodation recess and a storage device for storing identification code, key, serial number or the like of a manufacturer (or licensed manufacturer) is formed in the RFID IC, thereby providing production quality control and customer trace service and achieving the effect in authentication recognition of the product.

中華民國專利公報 [19] [12]

[11]公告編號: 484734 ()

[44]中華民國 91年 (2002) 04月 21日

新型

[51] Int.Cl ⁰⁷: G11B20/00

全 4 頁

from SIP. 138.A

[54]名 稱:一種光碟片之改良構造

[21]申請案號: 090200409 [22]申請日期: 中華民國 90年 (2001) 01月 08日

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[57]申請專利範圍:

1.一種光碟片之改良構造,係包含有一 預定版面之塑膠基板,其中心乃設 置一中心圓孔,該中心圓孔之圓周 區域範圍並形成一可供整個版面支 撐之基座,該基座係由光學級聚碳 酸脂塑膠製成以提供透射雷射光的 責任;該塑膠基板之頂側端面係覆 設一可供儲存資料之反射層,藉以 反射雷射光訊號;該反射層之頂側 端面則覆設一以硬化壓克力樹脂為 材料之保護層,藉以保護反射層免 於氧化刮傷並作為印刷之底面;該 保護層之頂側端面係以UV油墨採絲 網或平版印刷圖案方式設置一印刷 層;其特徵在於:該塑膠基板之基 座端面係預設一收容凹部,該收容 凹部且固設一無線高頻防偽晶片 RFID IC,該無線高頻防偽晶片 RFID IC 並設有一可儲存製造商(或 授權廠商)識別碼、密碼、流水號碼

- 等之儲存裝置;據此,得供光碟片 生產品質控管及日後客戶追蹤服 務,並達成產品防偽辨識之效用 者。
- 5. 2.依據申請專利範圍第1項所述一種光 碟片之改良構造,其中該塑膠基板 之無線高頻防偽晶片RFIDIC並包含 一伺服器位址、一識別碼及一監認 程式;其並配合一建構設有資料擷 程式及處理資料庫之電腦終端 機,藉由該資料擷取程式及處理資 料庫發給製造商(或授權廠商)後,透 過提供者網際網路即提供唯一編 碼。
- 15. 圖式簡單說明:

第一圖係本創作一較佳實施例之 分解立體圖

第二圖係本創作一較佳實施例之 組合立體圖

第三圖係本創作光碟片組合之放

20.

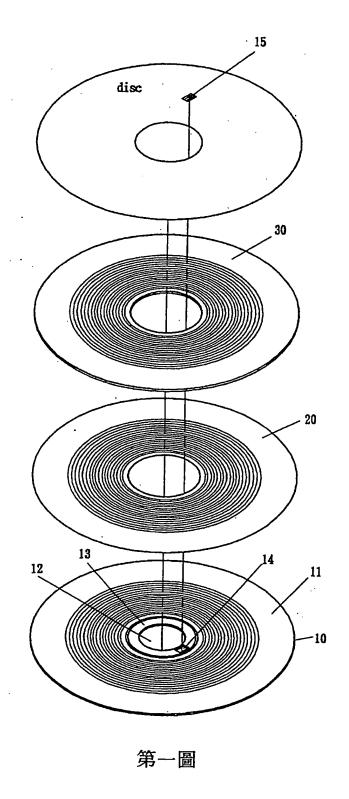
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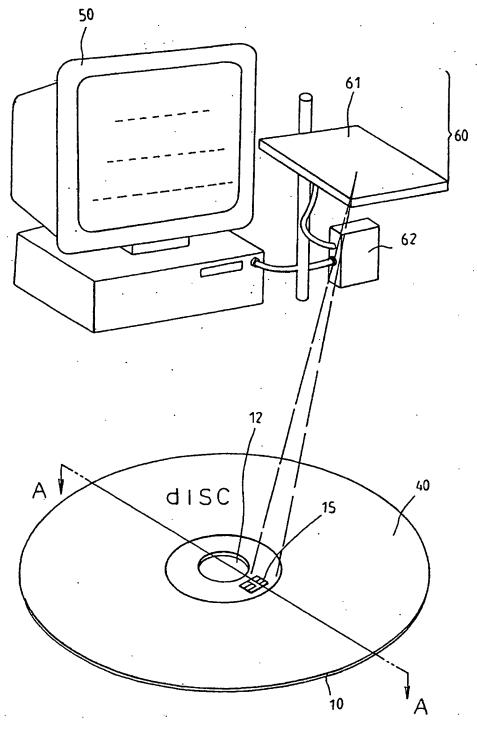
大剖視圖

第四圖係本創作一較佳實施例之

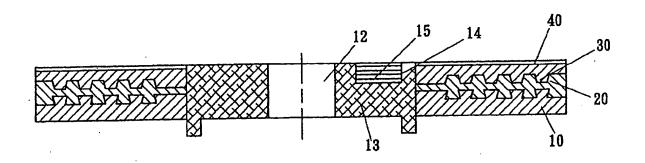
方塊示意圖

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第二圖



(放大剖視圖A-A)

第三圖

